



**METROPOLITAN
TRANSPORTATION
COMMISSION**

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ARTERIAL OPERATIONS COMMITTEE

10 A.M. – 12 P.M., Tue, July 13, 2010

Joseph P. Bort MetroCenter
Conference Room 171
101 Eighth Street
Oakland CA 94607-4700

Chair: John Rudolph, WCCTAC
Vice-Chair: Dean Hsiao, San Leandro
Staff Liaison: Vamsi Tabjulu, MTC
Danielle Stanislaus, MTC

The Arterial Operations Committee oversees the Bay Area's efforts to improve arterial efficiency and safety. Committee membership is open to Bay Area traffic engineers and consultants. For more information, please visit http://www.mtc.ca.gov/services/arterial_operations/.

AGENDA

1. **Introductions** (Rudolph)
2. **Regional Signal Timing Program (RSTP)*** (Tabjulu)
 - *2009 Cycle Projects Update*
3. **Program for Arterial System Synchronization (PASS)*** (Stanislaus/Tabjulu)
 - *FY 2010/11 Cycle of Projects*
 - *FY 2010/11 Consultants*
 - *Benefit-Cost Methodology*
4. **Tech Transfer Seminar Program*** (Stanislaus)
 - *Discussion on Arterial/Freeway Integration Seminar*
5. **New Business** (All)
6. **Featured Presentation** – I-880 Integrated Corridor Management** (Stella So, MTC)

* Attachment in the packet

** Handout available at the meeting

Next Meeting: Tuesday, September 14, 2010 at 10 A.M., Conference Room 171

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Arterial Operations Committee

Notes from meeting on May 11, 2010

1. Introductions

Attendees introduced themselves. The meeting notes from March 9, 2010 were approved as written.

2. Regional Signal Timing Program (RSTP)

- Vamsi Tabjulu (MTC) stated that the participating agencies from the RSTP 2009 Cycle were asked to complete an online survey to evaluate their RSTP consultants. MTC will use the feedback from the surveys in selecting and assigning the consultants for the PASS.
- He stated that the RSTP program will end with the completion of the 2009 Cycle of projects. The 2009 Cycle has 11 projects, eight of which and Phase I-III of the San Jose project have been completed. The three remaining projects (City of Fremont, Santa Clara County and Phase IV of San Jose) will be completed by Jun. 2010.

3. Program for Arterial System Synchronization (PASS)

- Danielle Stanislaus (MTC) stated that MTC received an overwhelming response from local jurisdictions to the PASS 2010/11 Call for Projects and received more applications than the available funds. She stated that MTC staff, in partnership with Caltrans, is reviewing the applications for their adherence to the goals and objectives of the program. The panel recommendations will be submitted to the Operations Committee for approval at the June 2010 meeting. She stated that the unsuccessful project sponsors are encouraged to apply in the subsequent cycles of the program.
- She stated that the benefit-cost evaluations would be an integral part of the PASS. MTC staff is working on reviewing the RSTP benefit-cost methodology and will make necessary changes to the PASS benefit-cost evaluation process.

4. New Business

- Danielle shared her experiences from the ITS America Conference and the U.S. DOT Surface Transportation Reauthorization Outreach Tour held in Houston, TX. She mentioned that there were many good discussions on arterial system management and interesting presentations by various vendors, and encouraged AOC members to attend ITS America in future years. She also discussed how at both the federal level under Secretary Ray LaHood as well as at the state level major legislation such as SB 375, safety and environmental sustainability are going to play a major role. As such, she mentioned how important it will be to make sure we track progress made in these areas through the AOC.
- Rob Sprinkle (Santa Rosa) shared that the SCATS Adaptive Traffic Control system is implemented on 9 signals in Santa Rosa and the system has shown preliminary benefits of 49% reduction in stops and 33% reduction in Travel Time along the corridor. He mentioned that using the TLSP grants, the City is working to implement the system on another 27 signals, and agreed to share the evaluation results with AOC members when available.

5. Featured Presentation – San Mateo County SMART Corridor Project

- Richard Napier and Sandy Wong (C/CAG) provided an overview of the San Mateo SMART Corridor project. Min Yin Lee and David Man (Caltrans) presented the technical aspects of the project and addressed several questions from members on the Caltrans role in the project. The presentation and technical handouts are available for download on the MTC website at:
http://www.mtc.ca.gov/services/arterial_operations/downloads.htm

6. Adjournment

The meeting adjourned at 11:30 A.M.

Arterial Operations Committee
Attendees from meeting on May 11, 2010

#	Name	Agency	Phone No.	E-Mail
1	Aileen Cabico	URS	408.297.9585	Aileen_cabico@urscorp.com
2	Albert Yee	MTC	510.817.5770	ayee@mtc.ca.gov
3	Atul Patel	DKS	510.267.6639	aip@dksassociates.com
4	Brian Sowers	Kimley-Horn	925.398.4862	Brian.Sowers@kimley-horn.com
5	Chad Spaltro	Iteris	916.267.1466	cds@iteris.com
6	Danielle Stanislaus	MTC	510.817.5737	dstanislaus@mtc.ca.gov
7	David Huynh	Fremont	510.494.4484	dhuynh@ci.fremont.ca.us
8	David Man	Caltrans		David.Man@dot.ca.gov
9	Dean Hsiao (Vice-Chair)	San Leandro	510.577.3410	dhsiao@ci.san-leandro.ca.us
10	Deborah Fehr	CHS Consulting	415.392.9688	dfehr@chsconsulting.net
11	Eugene Maeda	VTa	408.952.4298	Eugene.Maeda@VTa.org
12	Garland Wong	Fairfield	707.428.7698	gwong@ci.fairfield.ca.us
13	Helena Allison	Napa	707.257.9523	hallison@cityofnapa.org
14	John Rudolph (Chair)	WCCTAC	510.215.3042	JohnR@ci.san-pablo.ca.us
15	Joy Bhattacharya	TJKM	925.463.0611	jbhattacharya@tjkm.com
16	Min Yin Lee	Caltrans	510.286.4624	min_yin_lee@dot.ca.gov
17	Randy Durrenberger	Kimley-Horn	510.625.0712	randy.durrenberger@kimley-horn.com
18	Ray Cunanan	San Jose	408.975.3218	Ray.cunanan@sanjoseca.gov
19	Richard Napier	C/CAG	650.599.1420	rn timer@co.sanmateo.ca.us
20	Rob Sprinkle	Santa Rosa	707.543.3817	rsprinkle@srcity.org
21	Sandy Wong	C/CAG	650.599.1409	slwong@co.sanmateo.ca.us
22	Simin Timuri	Walnut Creek	925.256.3529	timuri@walnut-creek.ca.us
23	Swathi Korpu	URS	864.643.9673	Swathi_korpu@urscorp.com
24	Thien Pham	Santa Clara Co.	408.494.1326	thien.pham@rda.sccgov.org
25	Vamsi Tabjulu	MTC	510.817.5936	vtabjulu@mtc.ca.gov
26	Virendra Patel	Alameda	510.749.5852	vpatel@ci.alameda.ca.us



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Memorandum

TO: Arterial Operations Committee

DATE: July 6, 2010

FR: Vamsi Tabjulu

W. I. 1234

RE: **Regional Signal Timing Program (RSTP)**

The Regional Signal Timing Program (RSTP) started in 2004 to provide traffic engineering assistance and expertise to local jurisdictions in retiming their traffic signals, including implementing transit signal priority. Technical assistance is provided by consultants retained by MTC. The RSTP program will end with the completion of projects in the 2009 Cycle and is being replaced by the Program for Arterial System Synchronization (PASS).

2009 Cycle Projects

All the projects in this cycle have been successfully implemented. The final evaluation report on the performance of Traffic Responsive timings implemented on Lawrence Expressway in Santa Clara County is expected to be completed by July 30, 2010. MTC thanks all of the local agencies for participating in the performance evaluation survey of consultants in this 2009 Cycle. The table below lists all the projects from this cycle:

#	Project	Deliverable ¹	Consultant	Project Status
1.	Fremont	4B	Iteris	Complete
2.	Hayward, CT	4B	Iteris	Complete
3.	Livermore	4B	Iteris	Complete
4.	Danville	4B	Iteris	Complete
5.	Santa Clara City	4B	Iteris	Complete
6.	Daly City	4B	Iteris	Complete
7.	Concord	4B	TJKM	Complete
8.	City of Napa	4B	TJKM	Complete
9.	Benicia, CT	4B	TJKM	Complete
10.	Santa Clara County	4B	KHA	Extended Schedule ²
11a.	San Jose (Phase I)	4B	KHA	Complete
11b.	San Jose (Phase II)	4B	KHA	Complete
11c.	San Jose, CT (Phase III)	4B	KHA	Complete
11d.	San Jose (Phase IV)	4B	KHA	Complete

¹ Deliverable 4B = Final Evaluation Report (Project Completion)

² Traffic Responsive Timing Evaluation Report (Deliverable 5) due by July 30, 2010



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Memorandum

TO: Arterial Operations Committee

DATE: July 6, 2010

FR: Vamsi Tabjulu & Danielle Stanislaus

W. I. 1234

RE: **Program for Arterial System Synchronization (PASS)**

The purpose of the Program for Arterial System Synchronization (PASS) is to provide technical and financial assistance to Bay Area agencies to improve the safety and efficiency of the operations of certain traffic signal systems/corridors. The Transportation 2035 Plan provides approximately \$1.25 million per year in CMAQ funds for traffic signal coordination. The PASS provides traffic engineering assistance to local jurisdictions in retiming their traffic signals, including transit signal priority, incident management flush plans, traffic responsive timing plans, and establishing communication between state and local signals. MTC will administer and manage this program, but the primary responsibility for the operation and retiming of traffic signals resides with the agency that owns them. Projects are defined by local agencies, evaluated by MTC staff, and assigned to consultants retained by MTC. The PASS guidelines are available on the MTC Arterial Operations website at:

http://www.mtc.ca.gov/services/arterial_operations/

PASS 2010/11 Consultants

MTC released a Request for Qualifications to select consultants for the PASS 2010/11 cycle on March 18, 2010, with a due date for Statements of Qualifications (SOQs) of April 7, 2010. MTC received SOQs from the following seven consulting firms: 1) DKS Associates, Oakland, CA; 2) Fehr & Peers Transportation Consultants, Walnut Creek, CA; 3) Iteris, Inc., Santa Ana, CA; 4) Kimley-Horn and Associates, Inc., Pleasanton, CA; 5) Minagar & Associates, Inc., Irvine, CA; 6) TJKM Transportation Consultants, Pleasanton, CA; and 7) URS Corporation, San Jose, CA. MTC staff, in partnership with Caltrans, formed an evaluation panel and reviewed the qualifying SOQs using the following criteria:

- The firm's depth of resources and availability of qualified staff assigned to this program.
- Project manager and proposed team's demonstrated ability to provide technical assistance in traffic signal analysis and operation.
- Project manager and proposed team's ability in adhering to established standards, public safety requirements, and accommodating the needs of other users of arterials.
- Project manager and proposed team's specialized expertise and experience in transit signal priority, incident management, and smart corridors.
- Communication skills and written presentations.

After evaluation of the written SOQs, the panel conducted interviews with the shortlisted firms and made its recommendations. The MTC Operations Committee approved the staff request to award the PASS FY-2010/11 contracts to the following three firms: 1) Kimley-Horn & Associates, 2) TJKM Transportation Consultants, and 3) URS Corporation.

PASS 2010/11 Cycle Projects

MTC issued the Call for Projects for the FY 2010/11 Cycle on March 2, 2010 and received 16 applications totaling 612 traffic signals in seven counties. MTC staff, in partnership with Caltrans, formed a review panel and reviewed all the applications for their adherence to the following goals and objectives of the program:

- Coordinate local and state-owned signal systems, and retime signal systems in response to changes to the state-owned system.
- Establish and maintain communications between systems owned by Caltrans and local agencies.
- Retime traffic signal systems to support priority for transit vehicles and other regional programs, such as safe routes to schools/transit, smart corridors, and incident management.

Following the recommendation of the review panel, the MTC Operations Committee approved the staff request to provide funding to 13 projects consisting of 342 signals in the PASS 2010/11 Cycle. The approved projects and participating agencies are listed in Attachment 1. The remaining three projects consisting of 270 signals were found to be of low priority. Considering the large number of PASS applications received and the limited funds available, MTC has not approved funding these projects. MTC encourages all agencies to apply for PASS funds in subsequent cycles of the program, as funding will be approved based on the total number of applications received and the funds available.

Additionally, since this is the first cycle of the PASS and new consultants have just been selected for the program, MTC couldn't accommodate all the requests from local agencies for a particular consultant. MTC, in consultation with Caltrans, assigned consultants to the projects based on equity and services requested in the application. MTC will work closely with all of the consultants and participating agencies to ensure all the tasks are successfully completed as per the PASS guidelines. Towards the end of the 2010/11 Cycle, MTC will seek feedback from all participating agencies and consultants to make changes/enhancements to the program.

PASS Benefit-Cost Methodology

As in RSTP, the PASS program will include the calculation of various measures of effectiveness to enable the evaluation for each project. Please provide your feedback on the current Benefit-Cost analysis process used for RSTP and any other measures that could be included in the project evaluations. Also, please MTC know of any other program similar to PASS that has an effective way of calculating B/C and various measures of effectiveness. Please share your ideas and experience at the meeting or provide comments via email to ytabjulu@mtc.ca.gov.

Attachment 1
Program for Arterial System Synchronization (PASS) – FY 2010-11 Cycle Projects

#	Sponsor Agencies	Services ¹	# of Signals ²
1	Santa Clara County	TR	86
2	Livermore	WSC, IM, TSP	19
3	San Leandro, Caltrans	WSC	9
4	Fremont, Caltrans	WSC	8
5	Redwood City, Caltrans	WSC	8
6	Napa, Caltrans	WSC	32
7	South San Francisco, Caltrans	WSC	8
8	Santa Rosa, Caltrans	WSC, ST	30
9	Petaluma, Caltrans	WSC	12
10	Union City, Hayward, Caltrans	WSC	18
11	Fairfield, Caltrans	WSC	21
12	Alameda, Caltrans	WSC	4
13	Walnut Creek, CC County, Pleasant Hill, Caltrans	WSC, IM	87
Total number of Signals:			342

¹ WSC – Weekday (AM/ MD/PM) Signal Coordination Timing Plans; TR – Traffic Responsive Timing Plans; IM – Incident Management Flush Plans; ST – School Peak Timing Plans

² The actual # of signals, location and services will be finalized at the project kick-off meetings



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TO: Arterial Operations Committee

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FR: Danielle Stanislaus

W. I. 1234

RE: **Tech Transfer Seminar Program**

The Tech Transfer Program is an ongoing initiative under MTC's Arterial Operations Program, which supports efforts to improve the operations, safety, and management of the Bay Area's arterial network. Through the Tech Transfer Program, MTC retains a consultant to assist in developing and providing seminars on a variety of topics of interest to local traffic engineers. These presentations from the previous Tech Transfer Seminars are available on the MTC website at: http://www.mtc.ca.gov/services/arterial_operations/downloads.htm.

Arterial/Freeway Integration Seminar

The one remaining topic previous identified by AOC members for the next Tech Transfer Seminar is "Arterial/Freeway Integration." Please share your ideas and experience on various elements that you would like to see included in this seminar. Members are requested to suggest projects or people with expertise in this area at the AOC meeting or provide comments via email to vtabjulu@mtc.ca.gov.

Since the MTC Auditorium needs to be reserved in advance, a tentative reservation could be made for one of the dates listed below and will be finalized based on the availability of potential speakers. As of today, the MTC MetroCenter Auditorium is available in the afternoons on the following days:

- Sept. 27 (Mon)
- Oct. 4 (Mon)
- Oct. 11 (Mon)
- Oct. 27 (Wed)
- Nov 1 (Mon)

Please let MTC know if you have any strong preference for any of the above dates. In the upcoming months, MTC staff will work closely with Caltrans and Kimley-Horn Associates (Tech Transfer Consultant) to flush out an agenda and identify the appropriate speakers.